Recombinant Actin alpha 1, Skeletal Muscle Antibody

Rabbit Monoclonal Antibody [Clone ACTA1/9105R]

Catalog No	Format	Size
58-RBM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
58-RBM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
58-RBM3-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

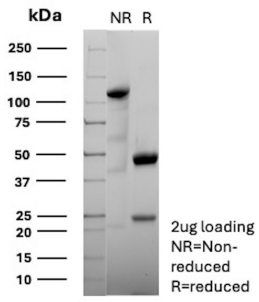
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

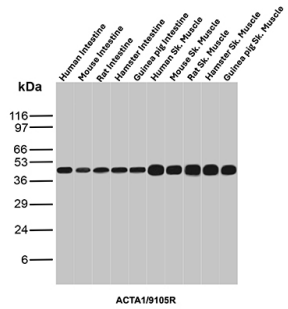
Clone	ACTA1/9105R
Gene Name	ACTA1
Immunogen	Recombinant human ACTA1 protein
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	43kDa
Cellular Localization	Cytoplasm.
Species Reactivity	Guinea Pig, Hamster, Human, Mouse, Rat
Positive Control	Human Intestine, Mouse Intestine, Rat Intestine, Hamster Intestine, Guinea pig Intestine, Human skeletal muscle, Mouse skeletal muscle, Rat skeletal muscle, Hamster skeletal muscle or Guinea pig skeletal muscle

**Optimal dilution for a specific application should be determined.*

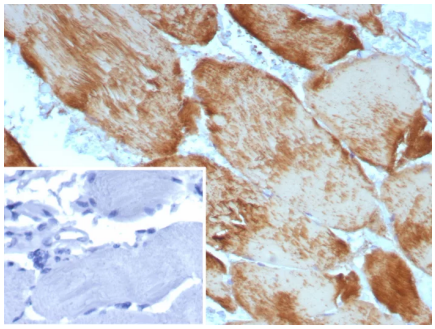
Product Images for Recombinant Actin alpha 1, Skeletal Muscle Antibody



SDS-PAGE Analysis of Purified ACTA1 Recombinant Rabbit Monoclonal Antibody (ACTA1/9105R). Confirmation of Purity and Integrity of Antibody.



Western blot analysis of Human Intestine, Mouse Intestine, Rat Intestine, Hamster Intestine, Guinea pig Intestine, Human skeletal muscle, Mouse skeletal muscle, Rat skeletal muscle, Hamster skeletal muscle and Guinea pig skeletal muscle lysates using Actin alpha 1, Skeletal Muscle Recombinant Rabbit Monoclonal Antibody (ACTA1/9105R).



Formalin-fixed, paraffin-embedded human skeletal muscle stained with SkeletalMuscle Actin Recombinant Rabbit Monoclonal (ACTA1/9105R). Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

All eukaryotic cells express Actin, which often constitutes as much as 50% of total cellular protein. Actin filaments can form both stable and labile structures and are crucial components of microvilli and the contractile apparatus of muscle cells. While lower eukaryotes, such as yeast, have only one Actin gene, higher eukaryotes have several isoforms encoded by a family of genes. At least six types of Actin are present in mammalian tissues and fall into three classes. a-Actin expression is limited to various types of muscle, whereas b and g are the principle constituents of filaments in other tissues. Members of the small GTPase family regulate the organization of the Actin cytoskeleton. Rho controls the assembly of Actin stress fibers and focal adhesion, Rac regulates Actin filament accumulation at the plasma membrane and Cdc42 stimulates formation of filopodia.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C.Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.